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25th Year



Schedule of Classes

A

**Graduate and Undergraduate Study
for Federal Employees**

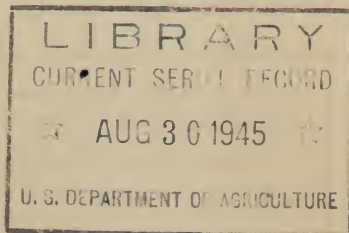
Fall Semester, 1945-46



Registration—September 10-22

**Regular hours: 9:00 a.m. to 6:20 p.m.
(1:00 p.m., Saturdays)**

**Special hours: Open until 8:00 p.m. on
September 14 and 18**



GRADUATE SCHOOL

UNITED STATES DEPARTMENT OF AGRICULTURE

WASHINGTON • AUGUST • 1945

Time Schedule and Supplement to 1945-46 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the 1945-46 Bulletin, a copy of which may be obtained by writing (use form on bottom of page) or by calling in person. **Please do not telephone.**

Classes begin during week of September 24.

Registration: September 10 to 22 (Room 1031, South Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after October 6, except with special permission of instructor and Director. A late registration fee of \$1.00 per course will also be charged after October 6. Registration closes in a course when the maximum for that class is reached.

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 1:00 p.m., October 6. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Counseling on courses and programs of study will be available by representatives of the major departments from 5:30 to 6:30 p.m., September 17 to 21. At other times, members of the School staff will be glad to assist students in planning their work.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 4:30 to 6:20 p.m., September 17 through October 12 (Saturdays excluded).

**Graduate School, Department of Agriculture
Washington 25, D. C.**

Please send me your 1945-46 BULLETIN.

Name.....

Street.....

City..... **Zone**
No......

☐ **Check here if you also wish a special graduate
bulletin (for graduate students only).**

Explanation: Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, fee, and page of 1945-46 Bulletin on which description may be found.

BIOLOGICAL SCIENCES

206. **Useful Plants of the American Tropics** (Fosberg)
Th 6-9 \$18 p. 14
207. **Land Management Ecology** (Graham) Tu-Th 6-7:30
\$18 p. 14
212. **Introduction to Farming** (Glover) M-Th 6-8 \$24
p. 14
209. **Systematic Botany** (Blake) M 6-8 \$12 p. 15
557. **History of Biology** (Leikind) F 8-10 \$14 p. 15
559. **Medical and Veterinary Entomology** (Bishopp)
M 6-8 \$14 p. 15
575. **Development of Genetics** (Ellinger) M 6-8 \$14
p. 15
784. **Genetics Seminar** (Ellinger) M 8-10 \$14 p. 15

ENGINEERING AND MECHANICAL ARTS

192. **Basic Photography** (Hanson) M 6-8 \$12 p. 17
193. **Applied Photography** (Purdy) M 6-8 \$12 and \$2
laboratory fee p. 17
175. **Naval Architecture** (Wright) Tu 6-8 \$12 p. 18
176. **Ship Construction** (Wright) Th 6-8 \$12 p. 18
177. **Aerodynamics** (Koneczny) F 6-8 \$12 p. 18
180. **Basic Mechanical Drawing** (Edick) Tu-Th 6-8 \$20
p. 18
181. **Architectural Drafting** (Edick) Tu-Th 6-8 \$20
p. 18
182. **Mechanical Drafting** (Edick) Tu-Th 6-8 \$20 p. 19
183. **Surveying** (Schlatter) Tu-Th 6-8 \$24 p. 19
185. **Pencil Sketching and Freehand Drawing** (Cadmus)
M-W 6-8 \$15 p. 19
194. **Art Appreciation** (Douglas) Tu 7:30-9:30 \$12 p. 19
195. **Drawing for Portraiture and Illustration** (Lazzari)
M-W 6-8 \$15 p. 19
186. **Interior Decoration** (Garrels) \$6 p. 20
Sec. I W 6-7
Sec. II W 7-8
188. **Glass Blowing** (Clark) M-W 6-7:30 \$20 p. 20
189. **Introduction to Textile Technology** (Sokoloff) M-W
7:30-9 \$18 p. 20
679. **Electric and Gas Utility Rates** (Blalock) Tu 7:30-
9:30 \$14 p. 21
857. **Electric Utility Engineering** (Jessel, Lynott) Tu 6-8
\$14 p. 21
678. **Water Power Engineering** (Ross) time arranged with
students \$21 p. 21

LANGUAGES AND LITERATURE

- 222^a. **Composition and Rhetoric** (Miller) F 6-9 \$18
p. 22
223. **Descriptive English Grammar** (Ward) M 6-8 \$12
p. 23
224. **Creative Writing** (Holt) Tu 6-8 \$12 p. 23
225. **Editing** (Merrill) M-W 6-7:30 \$18 p. 23

237. **Government Printing Procedure** (Frankewich) F 7-8 \$6 p. 23
- 226^a. **Writing for Official Purposes** (Zahniser) M 6-8 \$12 p. 24
228. **Fundamentals of Speech** (Provensen) W 6-8 \$12 p. 24
232. **Voice and Remedial Speech** (Emery) F 6-8 \$12 p. 24
566. **Advanced Diction for Executives** (Beauchamp) W 6-8 \$14 p. 24
326. **Parliamentary Procedure** (Beauchamp) F 6-8 \$12 p. 25
43. **Personal Development** (Provensen) Tu 6-8 \$12 p. 25
327. **Current Books** (Roberts) Th 6-7 \$6 p. 25
- 233^a. **Elementary Arabic** (Tannous) F 6-8 \$12 p. 26
- 238^a. **Elementary Chinese** (Tsiang) Tu-Th 6-8 \$24 p. 26
- 253^a. **Elementary French** (Humphrey) M-Th 6-7:30 \$18 p. 27
- 254^a. **Intermediate French** (Humphrey) Tu-F 6-7:30 \$18 p. 27
- 255^a. **Conversational French** (Grigaut) Tu 6-9 \$18 p. 27
- 259^a. **Elementary German** (Ponti) Th 6-9 \$18 p. 27
- 260^a. **Intermediate German** (Lederer) Th 6-9 \$18 p. 27
- 261^a. **Conversational German** (Bauer) M 6-9 \$18 p. 27
- 270^a. **Elementary Italian** (Rossetti) W 6-9 \$18 p. 27
- 275^a. **Elementary Japanese** (Yoshioka) Tu-Th 6-7:30 \$18 p. 27
- 290^a. **Elementary Portuguese** (D'Eca) Th 6-9 \$18 p. 28
- 295^a. **Elementary Russian** \$18 p. 28
 Section I (Von Bretzel) F 6-9
 Section II (Schuler) M 6-9
 Section III (Tarakus) W 6-9
- 295^b. **Elementary Russian** (Saharov) Tu 6-9 \$18 p. 28
- 296^a. **Intermediate Russian** (Von Bretzel) Tu 6-9 \$18 p. 28
- 297^a. **Conversational Russian** (Saharov) W 6-9 \$18 p. 28
- 300^a. **Elementary Spanish** \$18 p. 28
 Section I (Abella) M 6-9
 Section II (Batista) Tu 6-9
 Section III (Brown) M 6-9
 Section IV (Johnston) Th 6-9
 Section V (Parsons) Th 6-9
 Section VI (Nichols) W 6-9
 Section VII (Woods) F 6-9
- 300^b. **Elementary Spanish** \$18 p. 28
 Section I (Abella) Th 6-9
 Section II (Olds) Tu 6-9
- 301^a. **Intermediate Spanish** (Brown) M 6-9 \$18 p. 28
- 302^a. **Spanish Conversation and Literature** (Giro) M 6-8 \$12 p. 29
304. **Commercial Spanish** (Lever) F 6-9 \$18 p. 29

MATHEMATICS AND STATISTICS

1. **Review of Freshman Mathematics** (Schell) Th 6-9 \$18 p. 34
102. **Algebra** (Graves) M 6:30-8:30 \$12 p. 34
500. **Advanced Calculus** (Cook) W 6:30-9:30 \$21 p. 35

501. **Intermediate Algebra** (Finan) W-F 6-7:30 \$21
p. 35
704. **Interpolation, Approximation, and Mechanical Quadrature** (Winston) Th 6-8 \$14 p. 35
706. **Analytical Mechanics** (Cook) Th 6:30-9:30 \$21
p. 36
123. **Survey of Statistics** (Weiss) Tu 7-10 \$18 p. 36
124. **Graphic Methods of Presenting Statistical and Geographic Data** (Hainsworth) M 6-9 \$12 p. 36
- 127^a. **Introduction to Statistical Analysis** (Purves) W 6-8
\$12 p. 37
- 127^b. **Introduction to Statistical Analysis** (Steinberg)
W 6-8 \$12 p. 37
143. **Introductory Statistical Analysis in the Natural Sciences** (Tepping) F 6-8 \$12 p. 37
516. **Intermediate Statistics** (Hoerber) Th 6-8 \$14 p. 37
518. **Machine Tabulation** (Kaufman) W 5-7 \$9 p. 37
519. **Advanced Study of Tabulating Equipment** (Kaufman) F 5-7 \$9 p. 38
723. **Design and Analysis of Complex Experiments** (Pope) M 4:45-6:45—Beltsville \$14 p. 38
727. **The Planning of Statistical Surveys** (Jaffe) W 8-10
\$14 p. 38
732. **Sampling in Social and Economic Surveys** (Frankel, Stock) Tu 6-9 \$21 p. 38
733. **Theory of Sampling** (Cornfield, Evans) M 6-8 \$14
p. 39
735. **Theory of Sample Surveys** (Hurwitz) W 7:30-9:30
\$14 p. 39
741. **Theory and Application of the Characteristic Function** (Kullback) F 8-10 \$14 p. 39
744. **Modern Theories of Probability** (Doob) M 6-8 \$14
p. 40
745. **Seminars in Sampling and Statistical Inference** (Deming) p. 40 Special announcement available.
749. **Control of Quality by Statistical Methods** (Shaw, Simon) F 7-9 \$14 p. 40

OFFICE TECHNIQUES AND OPERATIONS

408. **Administrative Procedure** (Evans) W 6-8 \$12
p. 41
410. **Federal Auditing Procedure** (Cruikshank) M 6-8
\$12 p. 41
411. **Auditing Procedure** (Cruikshank) Tu 6-8 \$12 p. 42
412. **Federal Accounting Procedure** (Grant) F 6-8 \$12
p. 42
413. **Office Management** (Braum) M 6-8 \$12 p. 42
414. **Federal Personnel Procedure** (Mohagen) M 6-8 \$12
p. 43
415. **Federal Purchasing Procedure** (Ward) W 6-7 \$6
p. 43
416. **Federal Budgetary Procedure** (Herrell) M 6:30-8:30
\$12 p. 43
417. **Records Management Procedure** (Donaldson, Muller, Smith) Tu 6-8 \$12 p. 43
418. **Practical English Usage** (Williams) F 6-8 \$12 p. 43
419. **Vocabulary Building** (Pease) M 6-8 \$12 p. 44
420. **Government Letter Writing** (Samson) F 6-8 \$12
p. 44

- 90. Spelling Review (Griswold) W 6:30-8:30 \$12 p. 44
- 425. Secretarial Practices (Stephens) Th 6-8 \$12 p. 44
- 89. Review of Gregg Shorthand (Evans) Tu-F 6-7:30 \$18 p. 45
- 429. Beginning Gregg (Bolton) M-Tu-Th 6:30-7:30 \$18 p. 45
- 430. Intermediate Gregg (Patrick) Tu-Th 6:30-8 \$18 p. 45
- 431. Gregg, 70 to 100 Words (Coffman) Tu 6-8 \$12 p. 46
- 433. Pitman, 70 to 100 Words (Barry) Tu 6-8 \$12 p. 46
- 432. Gregg, 100 to 130 Words (Patrick) W 6:30-8:30 \$12 p. 46
- 435. Reporting—Gregg, 150 to 175 Words (Foote) M-Th 7-9 \$24 p. 46
- 438. Shorthand in Spanish (Krissillas) F 6-8 \$12 p. 46

PHYSICAL SCIENCES

- 145. Navigation (Lokerson) F 6:30-9:30 \$18 p. 47
- 147. General (Inorganic) Chemistry (Carter) F 6-8 \$12 p. 47
- 148. Organic Chemistry (Bowen) Th 6-8 \$12 p. 48
- 149. Physical Chemistry (Hamer) Tu 6-8 \$12 p. 48
- 522. Physiological Chemistry (Calvery) W 6-8 \$14 p. 48
- 532. Geochemistry (Chambliss) W 6-8 \$14 p. 48
- 152. Principles of Physical Metallurgy (Loring) W 6-8 \$12 p. 49
- 156. Soil Conservation (Steele) Th 6-8 \$12 p. 50
- 157. Soil Fertility (Ableiter) W-F 6-7:30 \$18 p. 50
- 162. Principles of Meteorology (Johnson) Tu 6-8 \$12 p. 51
- 533. Hydrology (Linsley) Tu-Th 6-7:30 \$21 p. 51
- 534. Introduction to Dynamic Meteorology (Teweles) F 6-8 \$14 p. 51
- 536. Physical and Synoptic Meteorology (Shands) M-W 6-7:30 \$21 p. 51
- 153. Introductory College Physics (Kilgore) Tu-F 6:30-8:30 \$18 and \$3 laboratory fee p. 51

PUBLIC ADMINISTRATION

- 344. Introduction to Public Administration (Russell) M 6:30-9:30 \$18 p. 58
- 626. Federal Administrative Management (Millett) W 6:30-8:30 \$14 p. 59
- 617. Administrative Law and Procedure (Nutting) W 6-8 \$14 p. 59
- 624. Organizational and Procedural Analysis (to be announced) F 6-8 \$14 p. 59
- 661. Personnel Administration (Stahl) Tu 6:30-8:30 \$14 p. 59
- 842. Personnel Administration (Kroeger) M 6-8 \$14 p. 60
- 659. Position Classification (Hill) M 6-8 \$14 p. 60
- 843. Advanced Position Classification (Buckley) M 6-8 \$14 p. 60
- 630. Selection and Placement (McLean) Th 6:30-9:30 \$21 p. 60
- 631. Employee Relations and Counseling (Mason) F 7-9 \$14 p. 60

639. **Employee Training** (Draheim) Tu 6-8 \$14 p. 60
635. **Budgetary and Financial Administration: Budget Formulation** (Manvel, Jump) Th 6-8 \$14 p. 61
637. **Governmental Purchasing** (Snyder, Knudsen) F 6-8 \$14 p. 61
638. **Surplus Property and Reconversion** (J. R. Wilson) W 6-9 \$21 p. 62
352. **Principles of Accounting—first half**
 Section I (Rowe) M-W 6-7 lecture, M 7-9 laboratory \$18
 Section II (Dye) T-Th 6-7 lecture, Tu 7-9 laboratory \$18
352. **Principles of Accounting—second half** (Brownold) M-W 6-7 lecture; W 7-9 laboratory \$18 p. 62
353. **Second Year Accounting** (Hord) M 6-9 \$18 p. 63
354. **Federal Government Accounting** (Mason) W 6-9 \$18 p. 63
642. **Cost Accounting** (Gaa) F 6-9 \$21 p. 63
645. **Federal Tax Accounting** (Halquist) Th 6-9 \$21 p. 63

SOCIAL SCIENCES

328. **Principles of Economics** (Thomsen) Tu 6-9 \$18 p. 67
548. **International Economic Controls** (Pajus) F 6-8 \$14 p. 67
672. **Income, Living Standards and Democracy** (Schickele) F 6:30-8:30 \$14 p. 67
807. **International Financial and Trade Policies** (Zaglits) F 6-8 \$14 p. 68
597. **History of Economic Thought** (Wasserman) W 7-10 \$21 p. 68
810. **Economics of Imperfect Competition** (Wermel) M 7-9:30 \$21 (18 wks.) p. 69
829. **Contemporary Price Theory** (Beckwith) M 6-8 \$14 p. 69
832. **Problems of Reconstruction and Full Employment** (Ezekiel) Th 6-8 \$14 p. 69
580. **Social and Economic History of American Agriculture** (Edwards) Tu 6-9 \$21 p. 69
550. **Postwar Agricultural Policies** (Wells) Tu 6-8 \$14 p. 70
586. **Land Economics** (Johnson, Timmons) Tu 6-9 \$21 p. 70
671. **Federal Crop Insurance** (Rowe, Colby) F 6-7 \$7 p. 70
333. **Elements of Agricultural Marketing** (Southworth, Waugh) W 6-9 \$18 p. 71
667. **Problems and Policies in Agricultural Marketing** (Been) M 6:30-8:30 \$14 p. 71
610. **Consumer Cooperation** (Tereshtenko) Tu 7-9 \$14 p. 71
595. **Organized Labor and the Law** (Ziskind) M 6-8 \$21 (18 wks.) p. 72
614. **Economic Geography of Europe** (Whipple) M 6-8 \$14 p. 72
549. **Problems of Reconstruction in Germany** (Marx) Th 6-8 \$14 p. 72
607. **Problems of International Government** (Ridge-way) W 6-8 \$14 p. 73

- 608. **World Politics** (to be announced) Tu 6-8 \$14 p. 73
- 691. **Pressure Groups in Government** (Shannon) W 7-9 \$14 p. 73
- 600. **Contemporary Russia** (Tereshtenko) Th 7-9 \$14 p. 73
- 602. **Contemporary China** (Tsiang) W 6-8 \$14 p. 73
- 342. **The Conditions of Personality Growth** (Chapman) W 7-9 \$12 p. 74
- 736. **Techniques of Interviewing and Questionnaire Construction** (Cannell) W 6:30-8:30 \$14 p. 74
- 590. **Social Psychology** (Schuler, Taylor) W 7-9 \$14 p. 74
- 611. **La America Latina y los Estados Unidos** (Green) M 6-8 \$14 p. 75
- 655. **Population** (Taeuber) W 6-9 \$21 p. 75
- 815. **The Cultural Regions of the United States** (Taylor) M 6-9 \$21 p. 75
- 817. **Community Organization** (Ensminger, Longmore) Tu 6-9 \$21 p. 75
- 337. **Principles of Transportation** (Snell) Th 6-9 \$18 p. 75
- 652. **Traffic Management Law** (Gruber) W 6-9 \$21 p. 76
- 651. **Problems of Commercial Air Transportation** (Fuller) Tu 6-9 \$21 p. 76
- 795. **Extension Thesis** (M. C. Wilson) By special arrangement \$3 p. 76
- 796. **Extension Education** (Frutchey) Limited to foreign interns p. 77